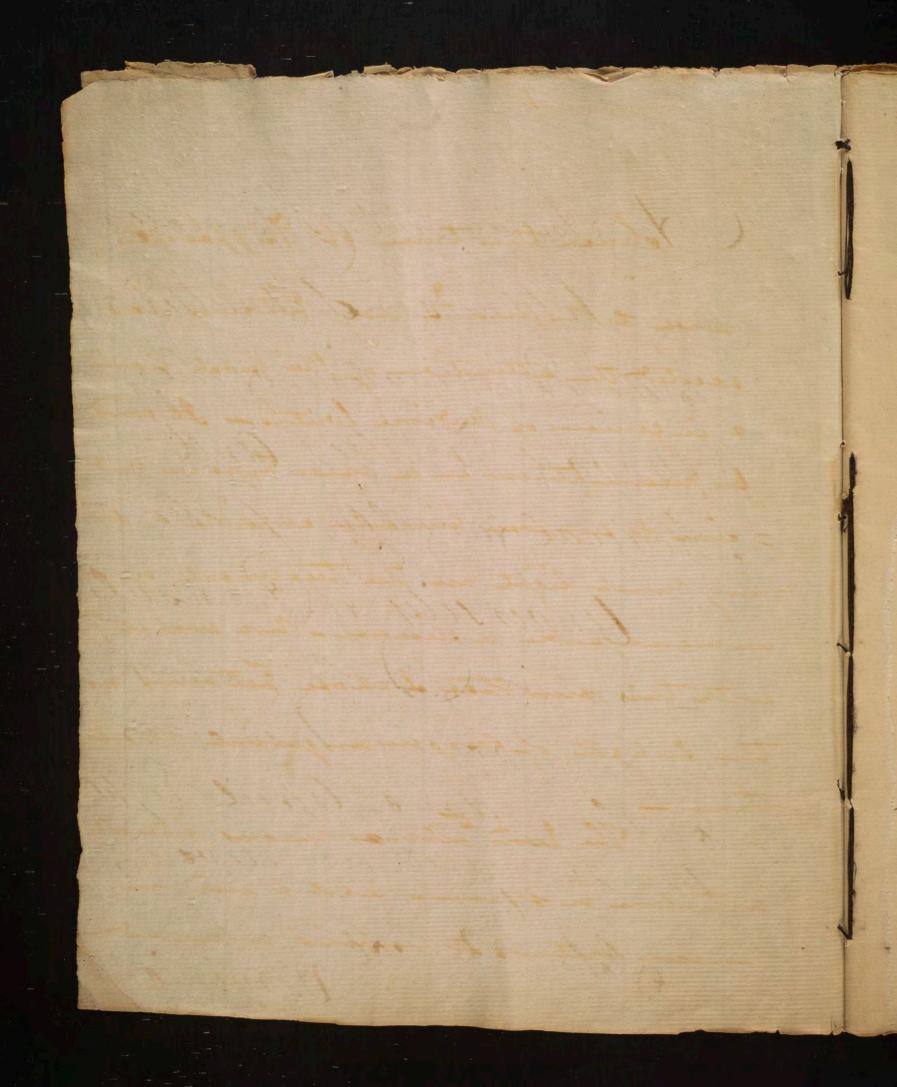


An Inaugural Disertation on Tetanies. Submitted to the Examination of the Drovost, Trustees, and Medical faculty of The. University of Fennsyl - wania for the Degree of Soctor of Medicine on the day of April Light teen Hundred an Elevens John Briscoe Virginia



Since the time of Hippocritis down to the present day, Letamus has excited the alteration of the most harned & ingenious of Mudical Writers - It would be presumptuous in a mior Tyro in mid = eine to suppose him silf eapable of the = ing much light on the treatment of so unmanequable er Chisease - hor was it. with this view that I chose Let anus as the Lubject of my in augural Obienta The wond Tetamas means literally a tention or spann - les it is used in mudical writings it unplies a morbid

every; age and if hothe sease are liable to attacky of This disease hat those of a robust and initable Labit an sais to be most frequently its mitime bumb a diverse estrict is expensisted a real Feto Jetonno is or disease principally nervous fuztere and is sented riches con fined to Me The Questy who were an

contraction or Spasm of the muscular fibre, et a living animal - Persons of every age and of both sexes are liable to attacks of This Olisease, but Mose of a robust and irritable habit are said to be most frequently its victims - bumb animals are also sometimes affected with a disease which is apparently a real Teta Tetamus is a disease from eipally con fined to the souland for and is seated more especially in the muscles of volentary motion, giving rise to a considerable cligner of rigidity to the whole body. The Greeks who were among

The friet out tog to morare, decime discipled Estainers as a unimose the of sile the muscles of volentoni motion, the however has during at rea In general the dynet come of Getomes make Their appear in a stone and gradual moune thishave we defined a good stime upon to come To exte it is much mine those and from e war un ell primareld

the first cultivators of mideal Seine described Tetames as a universal Spasm of all the muscles of volentory motion; they however had several varieties or divisions Which I shall take some notice of hereof In general the Lymptoms of Tetamus, make there appearance in a slow and gradual manner; this however depends a good clear upon its cause, for when brought an from exposure To epold it is much more slow and grad and in its progress Than when from an arganie lesion Though the latter is long = er in making its appearance after the

stepping of the Runnels of the mest and Janes, which is soon pollowed by on in e e any due sations, and les tron about the low . se end of the Steinesse shooting back to - words the spine. The rigidity of the house - eles of the need bearen the head to be mond juster difficulty the Jours con not be ofen ed without conciderable pain there is ale a stiffens and slight degree of fair at the root of the longer which gives rise to a differently un deglistion - The pain about the cartilogo enerformis

application of the course. among the first Symptoms is a degree of lasitude and steffung of the hunsely of the week and Jan, which is soon followed by an un = e asy sursation and tention about the low - er end of the sternion, shooting back to - wards the spine. The rigidity of the hus - eles of the neck causes the head to be moved with difficulty; he four count be open - ed without considerable pain; there is also a stiffings and slight degree of fair at the root of the longue, which gives rise to a difficulty in diglutition. The fair about the cartilago ensiformis in creasing, the Muscles of the back hard of the beck on

Human with reining contraction dias - ing the heard beachusonso. The Murocles of this lower from at the doing time an affects with spain morning the law so close in contact with the upper or to rem our it in populate to open the month. on become rigid and on though backerson the point about the present

Thrown into revolute contraction draw - ing the hear backwards. The Muscles of the lower for at the some time are affected with spasm, drawing the lower four so close in contack with the upper, as to ren! - du it im possible to open the mouth. The disease is Then called Tris mus or tocks The mins els of the extremetics now become rigid, and are chawn thoughy back words; the have about the precording, in creasing in violence, returns every ten or Jefter minutes, and with it the spanns of the houseles of the lower four and hech an with more violence and fair renew Ew- Un dise are thus gradually increas - ing, the museles of the spine become

appeared, burning the hoody have every and The Mich and House former by letter the Our cade is called significations. The Thing visited of This Oliveren the musker sister and the first of the book and theek act with so much miduces so to draw the chie to the steemen she ably ening the Land cineles and bur coiles en prophet sunt, Min is a

affected, building the body backwords and the mek and thorax forwards - When the Oliverse is called apristholonos. The Third variety of this disease is, when the muscles seated on the front of the body and heck act with so much violence, as to draw the chin to the Lternum, eli hugsing the Thorax, the nich ever sid - erably emon, the hand clinched, and The lower extremeters extended, and has bun called emprosthotomos, Min is a va - viety has seldom occurred, and is Thought by De mosely in possible The abdominal musels through the whole of the disease are violently contracted, and extremely hard to the touch

Hisean continues to many at time an unaffected become affected and soties at the some time heep the search who and extremetics then the fine We - the tongue while we tain als mobility a con siderable time at lungto become offeeled with shaon and is other hunts between the teste. The howhen becomes furnious the Eyes are distorted musely stranging to cheety more

When the Olisean continues to mereas the whole of the musely of volentary motion except those which move the fingers, which at times are unaffected, become affected, and acting at the same time, kup the head trunk and extremities stranget & in pluse i Ale - the tongue, which retains its mobility a considerable time, at lugthe becomes offeeled with shasm, and is often thrusto between the teeth. The forehead becomes furrowed, the ryes are distorted and immoveable in their sockets, the teeth exposed by the action of the muscles chawing the checks towards the lars - In a short time a violent convulsion comes on and puts an end to

to the water further. The pulse in this mission is view prairies sometimes slow & hard at Thun for great du ale and insperler The downers are grownelly con the looked from the shipliend to of shiple to trong and from a from of insiting a rection humit and shink - The misely Which on concerned in no the time the Of the ter on most mounty offeets for him is fountien visites with diffe

to the unfortunate sufferer. The pulse in this disease is very various; sometimes slow of hard; at others frequent, tru all, and irrigulars. . The bowels are generally constituted. from the difficulty of degletition, and from a fear of exciting a return of spasm, the patient refuses both now z ish ment and church. Those Muscles which are consumed in nohination & Onglitition are most violently affected. breathing is laborious & fair ful-The living is sometime voided with diffi - culty & pain and sometimes tolally dup = preferd - The Spasmy in this Olisease agenot constant, but subsides for two or Three

numerous quing the patient a dight degree by soon but by the slighters motion or un preparent the Speans return with indontales violence. The patients remain for feetly con wins, and the demand our unin-pained, untile the look washing powerful puts on end to his took humango. In tweeting of the courses of Sec I it is immerpoint to day be I when to a ving pule and in tracting a commit Tun is given by property in his maisal other nations and inquires -Ede days Tall the numero our presides course of octours act by undersing natural the hility and instability

minutes, giving the patient a dight digner of ease; but by the slightest motion or impression the speams return with nodoubled violence. The fature running perfectly conscious, and the sums an unimpound, untile the last violent paroseyan puts an end to his sufferings. In treating of the courses of Set = and it is unmerpary to day to the diffuse, en en very full and intuiting account of them air given by be Bush, in his Midical obsurations and Inquines. He says "all the remote and predishos - ing causes of detauns act by inducing protunal debility and instability

in the minimulant points, of the lost If eveny days Figherentes our all when = a sither by refer tion or in and fear throw brught on by I unicoin, our in the ever of the Latter run edies which die fint this dystern although to many law quet stress on Theor um and of Suppose the fut little com be learned firm as no heats in them, the Hadoys on en of detonno- be blemillow of Eling hung thinks that the cortion that if the conions in the production of this disease

in the housenlan parts of the body" Spasm says Fishorites am all indu = ed eithir by repletion or in aution; and for those brought on by The for I men sur should make use of depleting runeding, and in the ene of the latter run ed is which sup port the Lyston although De Mosely laid qual ships on Those remarks of Sippoenites, till but little som he learned from Minn as respects either the pathology an cine of Letains - De Hamilton of Edinghung Thurster that the cashin State of the bowels is greatly concurred in the production of this disease; and culainly then are some curem

a \_ a on i te to lu cu p = 4 th

Hances which favour this opinion. for we frequently su spannodic Oliseaus in duced from the same cause, ay Cholic, Historice, de, and we give - ally find Litamus accurring in Mose Clymates and seasons in which the intestinal canal is extremely torpid and constituted. I though remarks that brownen sildow have more Than two stools a leath in the livest Endices. But per hops befamiltons Theory leads him to far when he proposes to come Tetamus by purging alone, for entainly then one cases which come on without any previous en stipation. Ih am Leen a Evan which come on one how after the pa the boy being previously in every respect in propert health

The war for the and feeling unifriefeed with the trieth of the ductioned of the drawed proffspoor of the inclided of pro- ene of morning refueting the property failure of Payor - cions in the cur of this disease - Then has been of The orient he in facts of 1 to the wee of the sum une every extract any respect to the motion of the commercialist 11 0 produce" the disease "and to use weather 11/ elemen upour donn our remedy, under be suit of its special for 1 en in creases there dende musica in wise exception ii to review The various remarks which has to been proposed in the com of this who were be

Cure I sime fully imprefsed with the truth of the sentiments of the learned proffessor of the institutes of practice of medicine respecting the frequent failure of Physe - cions in the com of this disease - The bed suries of Physicians he imputes, to the use of the same run eding, without 11 any respect to the nature of the courses which " produce" the disease "and to an undue "relience upon some one remody under "a be luf of its specific officary". Bearing in mind those sentements, I am enabled to review the various runding which have bem proposed in the come of this disease,

ons the different plans of practice proposed by an Floris-Cem on y the prist recorder which it Hale notice is a for in the Bloodetimp. Govern observer that spains from plethouse and inference 1 - tion our to be comes by the first or core == icating remodies a be Mosely recoler the I case of a moun who received a fraction of the pronounce where was succeeded to windent in flow atom the cours by 2 the lots of a large growth of 1 show and other swarmanty - a come so win to wealed by they're, when bloodething and 1 from directofully bearing of Love min K time a constyte den some menty =1

and the different plans of practice proposed by anthon -Cemany the frist removes which I Shale notice is, 1 Bloodlitting. Galin observer, that spasms from plethora and inflama - tron and to be cared by depleting or eval = inating remedies. It Mosely relates the case of a hour who received a fraction of the cremme, which was succeeded by violent in flamation the, cured by the lofs of a large quantity of Blood and other evacuaty- a Cose is also related by I thingh, when bloodletting way und sweetsfully a burnie of Liverpool mun Thous a case energy the Lame remody

Boto atting hammed showed employed unless the pulse. on indicate it -De Merged. Hun om stimply infosicated in ale cape when the bording our saction otaly, costine ; on when the disease arion from the spreamen of bonne or any initating matter with the intertinal careal. It formullar pageed, to rime to compridence in the was of four gotion That he also out entirely were an Thurs in the com-L'Estemne - Mounty meaning plans 7 es in high turns in earn occur person with in places a town of your times or which Municetion of medican. Section, living the

Blood letting however should not be employed, unlys the pulse and in - flam atory symptoms indicate it -I Gurges. Thuse an Thoughy in dicated in all cases when the bowds an abstinately costive, or when the disease arises from the presumer of looms or any initating matter, in the intestinal calcal. It Hamilton places so much confidence in The use of Jamyalives, That he almost entirely when on them in the com of Letaure - Mosely neonement pany - es in high turns, in cases accompany with in flow atony symptoms, on whene venusetion is munfrary. Doctors wight

Humso and bocksom ale hear tist. Be Betjed. There are remotes, which from what we know of their general home our the municon disting and This ity in coars of spoonwole stricture from the let to conclude that They might be en played with con sider it advantage in some come there is care of return martines by to surie which continues with quat wisher for dinar , main & Doniting come on while con ty record The Muyula t

Munro and bochrane all bear testi - mony to their use in the come of Tetamy. 3 Emetics. These are rundies which have been seldom used in Telanno; but from what we know of their general home over the muscular System and their ulit - ity in cases of spasmodie Striction, we would be led to conclude that They might be employed with considerable advantage in some cases - there is a case of Tetanno Montioned by De burrie, which continued with great violence for sural days, When a handia & vomiting came on which com - pletely relaxed the muyenlan Lystin, and the patient recovered with great rapidity;

Win and Bouter were however also was so the dam time , bethen I me - late, a case when on Suntie Lad the effect of windowning the Jum of the Solin indently the parent was at the done time deign with a unitalle from 4. Incidion. When Letones is brough on from a primadient bround or only the organie lain, he aking on in vision so on to soil at the hours fresh often prose instantainenty succeptule. The opina - trainer duppered to prove surplus by die - viding the princtions yourse or the die which is the cause of the of some one Thurst interesting the commission he twen the part shopeand & the Sursome in wing

Wine and Banks were however also used at the same time. Johnsh re - later a case, when are Smiter had the effect of unlocking the James of the Balund instantly; the patent was at the same -time seized with a remittent from -4. Incision. When Titamus is brought an from a spreadured lovement or any other organic lision, ha aking an in incision so as to dilate the bound fully often promy instantainously sweeysful. This open a = tron is supposed to prove sweets ful by di - viding the puretured never or tendon which is the cause of the spasm and Thurly intercepting the communication be 2 tween the hart diseased & the Sunsone Communic

This does not seem to me as = tong the one of the Many . incling to suppose that in some at hast the incion prove marful by u ing that tending of the Lant which wandly arion from frimetime. remain in the line of Fetermio, for them her new not be surprised that ply every attended to the per honey's of this rements, the

This does not sum to me a satisfac = long theory of the war of the Knipe - I am inclined to suppose, that in some measure at least the inciscon provey useful by umor = mg that tension of the hart, which usually arises from princtures. 5. Opium. This article has been usort = et to by Physicians as one of the principal remueis in the cure of Litarus, get there is reason to doubt, whether in cases arising from organic lision, it has really comed the disease without the aid of other rundinher new not be surprised that physicians, relying solely on opening should be disappoint = ed. This disappointment is not however to be attributed to the feebliness of this remady, but

is try of the sissen and compliming the - teles to the emission of a single daying tom in shoonly days his me found of any stilling in this discours. The carper, as up an summer on her - typine from prince by mention may be given. Lind goin a temple in turney of This rundy her worth conceins wither

to the circumstance of Johnsicians for De Ham - ilton umarks) Olisung and ing the general his tory of the disease, and confining Them = selves to the consideration of a single symptom, Laying no attention to the Stale of the Lysten in general. Opium Dethosely says he never found of any utility in this disease. The dose of opening in this disease should be large; as high as one owner in twen - ty-four Lower, betweenly mentions, many ber given - Lind gave a scruple in twenty - four-town -6th Wine From the nuthitions as well as the stimulating effects of this runedy, we would conclude that it would prove useful in the ence

9 13 ante Mis as unde as de Jefrush whater a case of it to effects, I have dere the aris of arrange asministra in the door of our with a green their turn a day of in creating 1 abin was at the same time 45 the fatine recon

of Zetamus. Professor Bush and De Currie of Liver poole have un floged this remote with advantage. To he useful they advise it to be given in large grantitus. 7. Barts. This as well as some of the The Tomes Las been used with advantage. Deknot relates a case of its bunificial effects, I have seen the Decid of arsenic administered in the dose of one sixth of a grain three times a day of in creased to a grain and a Lalf appearently with very food effects. There was indeed other remodies was at the same time, as oping, June, t=; the Latine recovered.

leften time Cill. " has want the st: furein with a see in sight shops with the most effects in a com of Estemno. Les I shale place the Baleaun of Perce Though it is not strickly speaking on sil you it is so nearly allied to the apentice site that it wile not for our proper 0 of it wish this has I healt land me 0 is several coins of futament in where he was the Bolsom of Rem with complete weerfs given in the door of our days Inglayer what

8. The afsential Oils. Profession Rust has now the ol: Lucini in the dose of sex or eight drops with the most Lappy effects in a case of Letamus. hunden This Lead I shall place the Balsam of Peru, Though it is not strickly speaking an ail, yet it is so nearly allied to the afsential oils, that it will not be un proper to speak of it under this head. It Kirkland men - Thous several coses of Telamers in which he used the Balsam of Peru with complete success, given in the dose of one cham the times a day- De Rogues relates a case of Epilipay in which he wan this Balsan with the Lathiest effects. This favours the probable utility of it in Letamus.

Wisters Orginian ouvered expect mon dendet The application of minters or the catual carting in sure and the description of the descr 10. Elevation. IL efferment of Their remedy has been rung datio for Torth from by several author of unperturbed but puckage mon thisting by in a com wester by the last bryang of his wifer Juply also recent a come where a tol - wation appealed and, be more by . and that meny atman hall them e I possert this may be the co the part indian last entaining it very expensed in the heartes status - It

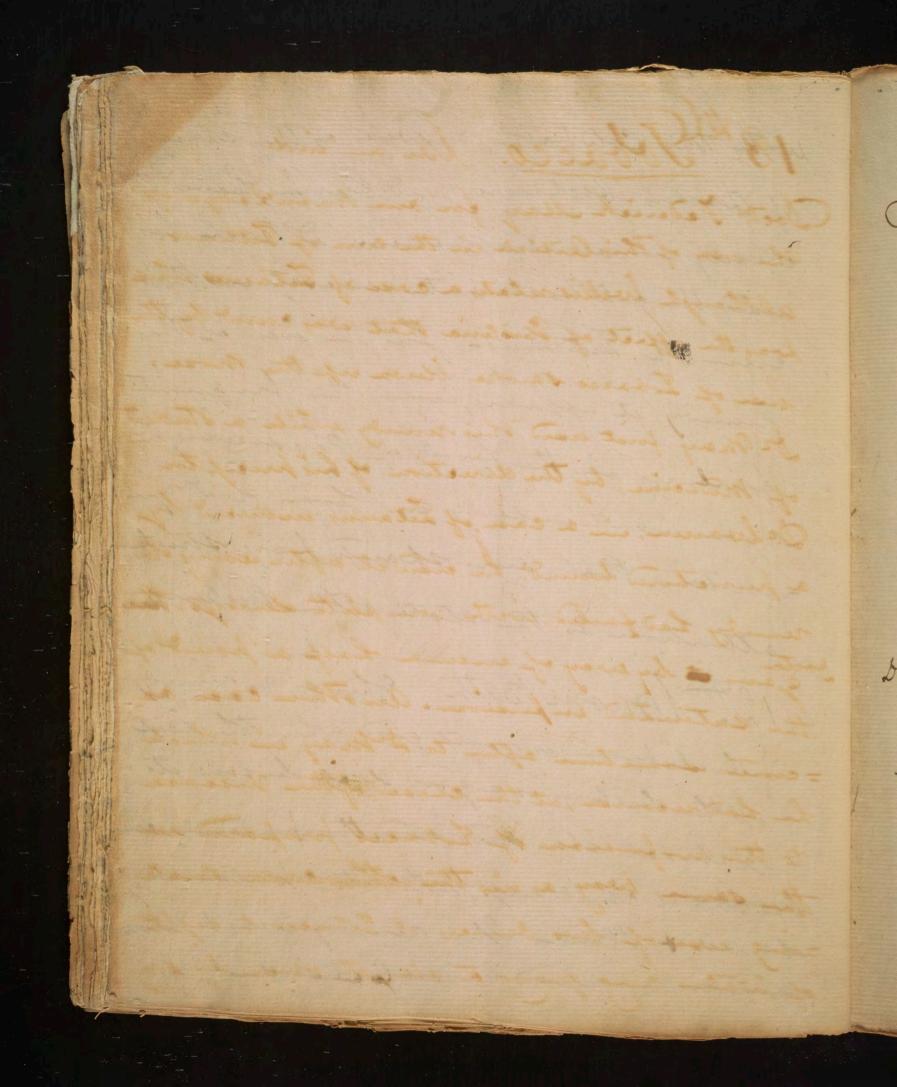
9. Alisters. De Girdleston speaks highly of the use of Blisters in the come of Tetamers. Iwould expect more benefit The application of mustand or the actual canting, from remedies recommended by the americants in many violent diseases -10. Salivation. The oppracy of This remedy has been very satisfactoryly From by several authors of un pretribility, but puhaps more thickingly in a case related by the late De young if manylow Ir Rush also relates a case when a tal - ivation affected a come. De mosely says that mucuny afterer brills Than comes the patient, this may be the case in the heist endian, but certainly its very different in the United States - There is how - ever a great objection to the use of men

The Coto Bath. This is a wites was partueally attached to in this disease and his restrict ies of it, are truly decurring of attention He stown That it show only be even in the dummer deader and in patients that in of a plathone and rothers habit

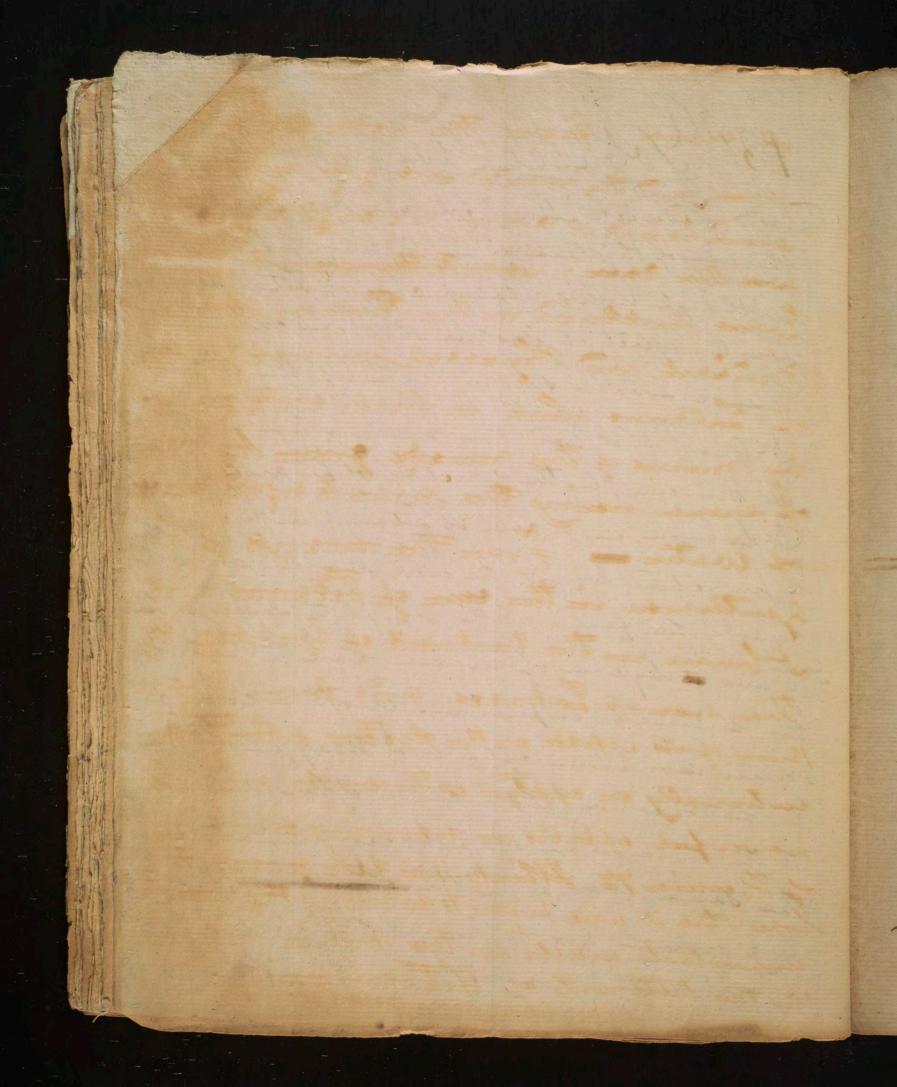
: every, that of its bring so slove in its aproxim it should however be now in congruetion with other runding. 17. 60to Bath. This is a rundy almost as ato as the science of Mideine. Diphae = rites was farticularly attached to its use in this disease, and his restrictions in the use of it, are buly de suring of attention. De observes that it should only be used in the Summer deason, and in patients that are of a plethouse and robust habit. This practice was nearly forgotten, when, to the great bonon of Delveight of La maca, he welled brought, its use tento! publick notice. The success of Delvight in the com of Letamus

with the coldboth ensure of the sail elearly evinen its efficacey. war the cate hath puth and end of Fitamer on the order rundy it opposes from the projunt hardens in the Long of they serving in ly vin there of that he should hay strict 12 to loone Bath. This is a a sturiet al

with the Cow both, en will on the success of Doctors bothrane and Burrie, Lave clearly evinew its efficacy. Dethush Las used the cold bath with sweet in the cure of Tetamus - In the use of this rundy it appears, from the frequent failures in the Lands of Pohy sicious, and mon farticularly in those of Degind - leston, that we should hay strict attention to the state of the Lyston. 12. Holoarm Bath. This is a runedy which promises most good when the heat of the Lystin is a good deal below its natural standard, and the pateut com - plains of chillings, when the pulse is small + Slow - This remity was known and meaning by Lifelsus\_



13- Gobacco. Me an indetted to Doets Federick May, for our knowledge of the use of this article in the come of Tetauns. although willis relates a case of Letamus which was the effect of Historia that was cured by the use of Tobacco smoke blown up the nose. Dr. Mary frist used this remody while a student of Miscine, by the direction of his priceptor De leaven, in a case of Telains induced by a punctured bound, he want it after every other remedy Lad failed, with, complete success. The Doctor to by every of evenue half a pound of the secturated infusion. another case as = cure sometime after to & May, in which he has recounde, at the close of the disease, to the infusion of Tobacco prefaced in the same way as in the offere; make = ing use of two Bunces of Tobacco to eight of water and giving it all at one by way



of enema, from the extraordinary dose, and the exampled state of the factions, we should expect it to prove in stantly folat as from the case. Det THE Rogers published in the Philadelphia Midical and Physical Journal, a Con of Letowns which he treated with success by means of this remady given by way of enema, using two chamo to Eight Dunces of leater - From the success of those gentlemen in the come of Letamus, and of Debunie in the treatment of Epilipsy by The use of Tobacco, and from what we Know of its effects on the System when taken internally on applyed esetumally, and its howerful effects in releving some cases of Herria, te, Ithink we have reason, to hope that it will know to be one of the most important articly of the meline midnes in the treatment of getanus.

